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L17: Entry 1 of 1

File: USPT

Nov 9, 1999

US-PAT-NO: 5982918

DOCUMENT-IDENTIFIER: US 5982918 A

TITLE: Automatic funds processing system

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mennie; Douglas U.	Barrington	IL		
Jones; William J.	Kenilworth	IL		
Munro; Mark C.	Park Ridge	IL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Cummins-Allison, Corp.	Mt. Prospect	IL			02

APPL-NO: 08/ 664262 [PALM]

DATE FILED: May 13, 1996

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of the following pending U.S. patent application Ser. No. 08/433,920 filed May 2, 1995 for an "Automatic Currency Processing System", abandoned.

INT-CL: [06] G06 K 9/00

US-CL-ISSUED: 382/135; 382/136, 705/43

US-CL-CURRENT: 382/135; 382/136, 705/43

FIELD-OF-SEARCH: 382/135, 382/136, 382/137, 382/140, 382/318, 382/319, 395/241, 395/243, 395/245, 395/240, 705/41, 705/43, 705/45, 705/40, 902/8, 902/10, 902/12, 235/379

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected
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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> D369984	May 1996	Larsen	D10/97
<input type="checkbox"/> 2669998	February 1954	Buchholz	133/8
<input type="checkbox"/> 2750949	June 1956	Kulo et al.	133/8
<input type="checkbox"/> 2835260	May 1958	Buchholz	133/8
<input type="checkbox"/> 3246295	April 1966	Clariss et al.	382/56

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<input type="checkbox"/>	3800078	March 1974	Cochran et al.	178/7.1
<input type="checkbox"/>	3806710	April 1974	Shigemori et al.	235/92
<input type="checkbox"/>	3815021	June 1974	Kerr	324/61R
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<input type="checkbox"/>	<u>5544043</u>	August 1996	Miki et al.	364/406
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0 583 526 A1	August 1992	EP	
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Brochure (2 pages) for Model 8904 Upfeed, High Speed 4-Denomination Currency Dispenser; Brandt; dated prior to May 1996.

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Mosler Inc. brochure "The Mosler/Toshiba CF-420", 1989.

AFB Currency Recognition System.

"Toshiba Fitness Sorter CF-400 Series", estimated 1989 or earlier, 6 pages.

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Brochure for ISH I2005/501 SB-Munzahler; date prior to May 13, 1996 with translation.

Brochure: The New CRS-8000 Cash Redemption System; Glory Cash Handling Systems; date: prior to May 13, 1996.

Brochure for Cash Depositing Systems CDS 5700 and CDS 5800 (with translation) ; De La Rue Garny GmbH; date unknown.

PCT/US95/02992 filed Mar. 8, 1995 International Search Report dated Jun. 2, 1995 without references (already of record).

JetScan Currency Scanner/Counter, Model 4060, Operator's Manual by Cummins-Allison (Aug. 1991).

Sale of JetScan Currency Scanner/Counter, Model 4060 (Aug. 1991).

JetScan Currency Scanner/Counter, Model 4061, Operating Instructions by Cummins-Allison (Apr. 20, 1993).

Sale of JetScan Currency Scanner/Counter, Model 4061 (Apr. 20, 1993).

JetScan Currency Scanner/Counter, Model 4062, Operating Instructions by Cummins-Allison (Nov. 28, 1994).

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Brochure: Prema 405 (RE) Self Service Coin Deposit Facility; date prior to May 13, 1996.

Brochure: Scan Coin CDS 600 Cash Deposit System; date Jun. 15, 1994.
Brochure: Scan Coin CDS 640 Cash Deposit System; date Jun. 15, 1994.
Brochure: Cash Receipt System CRS/6501/CRS6510; IREIS; date Feb. 1995.
Cassius Elston, "No More Lines . . . Self Serve Cash-Out"; DropStream Developments;
pp. 3-4; date: prior to May 13, 1996.
Brochure for ISH I2005/500 SB-Munzähler; date prior to May 13, 1996.
Brochure for ISH I2005/501 SB-Munzähler; date prior to May 13, 1996.

ART-UNIT: 271

PRIMARY-EXAMINER: Tran; Phuoc

ATTY-AGENT-FIRM: Arnold White & Durkee

ABSTRACT:

A funds processing system receives, dispenses, and sorts currency and substantially immediately furnishes an associated accounting system with data, including the value of the currency processed, in a single transaction. The system determines the denomination of the received currency, sorts the received currency, generates electrical signals representing the amount of received currency in each denomination in each batch of currency received, has a memory for receiving data representing the amount of each denomination of currency received. The system also contains a controller for transferring data from the memory to the associated cash accounting system so that deposits and withdrawals executed at the funds processing system are entered in the accounting system substantially immediately after the execution of the deposits and withdrawals. The system dispenses currency based upon the amount of received currency and the amount deposited into the accounting system.

23 Claims, 113 Drawing figures

End of Result Set

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L19: Entry 1 of 1

File: USPT

Nov 9, 1999

DOCUMENT-IDENTIFIER: US 5982918 A
TITLE: Automatic funds processing system

US Patent No. (1):
5982918

Detailed Description Text (332):

One of six proximity sensors S1-S6 is mounted along the outboard edge of each of the six exit channels 1527-1532 in the sorting head for sensing and counting coins passing through the respective exit channels. By locating the sensors S1-S6 in the exit channels, each sensor is dedicated to one particular denomination of coin, and thus it is not necessary to process the sensor output signals to determine the coin denomination. The effective fields of the sensors S1-S6 are all located just outboard of the radius at which the outer edges of all coin denominations are gaged before they reach the exit channels 1527-1532, so that each sensor detects only the coins which enter its exit channel and does not detect the coins which bypass that exit channel. Only the largest coin denomination (e.g., U.S. half dollars) reaches the sixth exit channel 1532, and thus the location of the sensor in this exit channel is not as critical as in the other exit channels 1527-1531.

Detailed Description Text (333):

In addition to the proximity sensors S1-S6, each of the exit channels 1527-1532 also includes one of six coin discrimination sensors D1-D6. These sensors D1-D6 are the eddy current sensors, and will be described in more detail below in connection with FIGS. 64-67 of the drawings.

WEST Search History

DATE: Tuesday, July 08, 2003

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reviewed →	L22 → L21 and (camera or sens\$)	10	L22
	L21 L13 and database	18	L21
	L20 L14 and (compar\$ same (id or identificat\$))	0	L20
	L19 L18 and ((vicinity or proximity) with sens\$)	1	L19
	L18 5982918.pn.	1	L18
	L17 L13 and ((vicinity or proximity) with sens\$)	1	L17
	L16 L14 and (vicinity or proximity)	0	L16
	L15 L14 and ((vicinity or proximity) with sens\$)	0	L15
	L14 L13 and camera	9	L14
scanned →	L13 → L2 and ((705/43)! CCLS.) 606F 17/60	37	L13
	L12 L7 and camera	0	L12
	L11 L3 and camera	13	L11
	L10 L9 and sens\$	2	L10
	L9 4641239.pn. or 6523742.pn.	2	L9
	L8 L7 and sens\$	2	L8
	L7 L3 and ((705/43)! CCLS.)	6	L7
	L6 L4 and ((705/43)! CCLS.)	0	L6
	L5 L3 and ((vicinity or proximity) with sens\$)	4	L5
reviewed →	L4 → L3 and (vicinity or proximity)	16	L4
	L3 L2 and (compar\$ with (id or identificat\$))	137	L3
	L2 L1 and ((atm or (automatic\$ adj teller adj machine)) with machine)	624	L2
	L1 financ\$ and transaction and @ad<=19971127	3902	L1

END OF SEARCH HISTORY



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L22: Entry 7 of 10

File: USPT

Jun 22, 1999

US-PAT-NO: 5915246

DOCUMENT-IDENTIFIER: US 5915246 A

TITLE: Self-service system

DATE-ISSUED: June 22, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Patterson; David	Dundee			GB
Coutts; Michael G.	Dundee			GB

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NCR Corporation	Dayton	OH			02

APPL-NO: 08/ 787415 [PALM]

DATE FILED: January 22, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
GB	9618110	August 30, 1996

INT-CL: [06] G06 F 17/60

US-CL-ISSUED: 705/43; 705/10, 705/14, 705/35, 705/44

US-CL-CURRENT: 705/43; 705/10, 705/14, 705/35, 705/44

FIELD-OF-SEARCH: 705/43, 705/35, 705/39, 705/42, 705/44, 705/8, 705/10, 705/14

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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<input type="checkbox"/> 4700295	October 1987	Katsof et al.	705/10
<input type="checkbox"/> 5220501	June 1993	Lawlor et al.	380/24
<input type="checkbox"/> 5237620	August 1993	Deaton et al.	705/10
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<input type="checkbox"/> 5712830	January 1998	Ross et al.	367/93

ART-UNIT: 272

PRIMARY-EXAMINER: Hafiz; Tariq R.

ASSISTANT-EXAMINER: Rhodes; Jason W.

ABSTRACT:

An automated teller machine (10) or a home banking system (32) is operated to provide, during the delays associated with authorizing and acting upon a user instruction, a sales presentation related to a financial product. The type of presentation is selected by matching a profile of the user, obtained from a central information store (20), with profiles of target customers for a number of financial products.

16 Claims, 4 Drawing figures